

# **Tammy Edwards Stoker**

## **Education**

- B.S., North Carolina State University, Raleigh, NC; Zoology, 1987.
- M.S., North Carolina State University, Raleigh, NC;  
Toxicology/Pharmacology, 1993.
- Ph.D., North Carolina State University, College of Veterinary Medicine;  
Pharmacology/Physiology, 1998.

## **Professional Experience**

- 1988-1994: Senior Scientist, Man Tech Environmental Technology, Inc., Contractor to EPA.
- 1995-Present: Research Biologist, EPA.

## **Research Interests**

- Environmental endocrine disruptors.
- Developmental endocrinology/toxicology.
- Toxicant-induced delayed ovulation.

## **Professional Activities**

- Member, Mechanism of Action Technical Review Panel, Office of Pesticide Program's Risk Assessment Forum, 2006-present.
- Member, Two-generation retrospective analysis panel using ToxRef database, Office of Pesticide Programs, 2007-present.
- Chair, Effects of Endocrine Disrupting Chemicals on Puberty Session, Science to Achieve Results Grant Review, EPA. 2006.
- Member, Committee on Reproduction and the Environment, Society for the Study of Reproduction. 2006-present.
- Member, EPA Endocrine Disruptors Screening Program Team, assisting EPA Office of Science Coordination and Policy with Tier 1 screening efforts. 1999-present.
- Participant, Rat and Amphibian Thyroid Histopathology Workshop, Washington, D.C. 2005.
- EPA Bronze Medal. 2004.
- Reviewer, EPA Integrated Risk Information System review of tetra-, penta-, hexa-, and decabromodiphenyl ethers. 2004.
- Member, National Institute of Environmental Health Sciences/EPA Breast and Prostate Faculty Group. 1999-2003.
- Participant, International Serono Symposia on Pubertal Progression, Chicago, IL. 2003.

- Moderator, Endocrine Mechanism of Action Session, EPA Endocrine Disrupting Chemicals Workshop. 2002.

## **Invited Lectures/Symposia**

- Interlaboratory Validation of the Tier 1 Male and Female Pubertal Protocols, Endocrine Disruptors Methods and Validation Advisory Committee (EDMVAC) Meeting, Washington, D.C., April 18, 2006.
- Effect of 2,4-D exposure on pubertal development and thyroid functioning the male Wistar rat. 40th Annual Meeting of the Society for the Study of Reproduction, San Antonio, TX, 2007.
- Prostate Tumor Breakout Discussion Session, National Toxicology Program Workshop: Hormonally induced reproductive tumors: Relevance of rodent bioassays. 2006.
- Endocrine Mechanisms Symposia, Society of Toxicology: Effects of the peripubertal exposure to Simazine on the HPG axis in male rats. 2006.
- Science to Achieve Results Review Workshop: The effects of EDCs on pubertal development: Current research efforts by EPA. 2006.
- National Institute of Standards and Testing, Brominated Flame Retardant Meeting: In vitro and in vivo anti-androgenic effects of DE-71. 2005.
- EPA Endocrine Disruptors Research Program Review Workshop: Development and validation of standardized in vivo protocols that identify endocrine disrupting chemicals. 2003.
- Endocrine Disruptor Methods Validation Subcommittee Meeting: Do the pubertal protocols accurately detect thyrotoxicants with different MOAs? 2003.
- Triangle Consortium on Reproductive Biology, National Institute of Environmental Health Sciences: The role of prolactin in the developmental toxicology of the rat prostate. 2002.
- Endocrine Disruptor Methods Validation Subcommittee Meeting: The relationship between body weight and pubertal development: A special study. 2002.

## **Selected Publications**

Stoker TE, Cooper RL. 2007. Distribution of 14C-atrazine following an acute lactational exposure in the Wistar rat. *Reprod Toxicol.* 8023:607-10. [Abstract](#)

Cummings AM, Stoker TE, Kavlock RJ. 2007. Gender based differences in endocrine and reproductive toxicity. *Environ Res.* 104:96-107. [Abstract](#)

Cooper RL, Laws SC, Das PC, Narotsky MG, Goldman JM, Tyrey EL, Stoker TE. 2007. Atrazine and reproductive function: Mode and mechanism of action studies. *Birth Defects Res B Dev Reprod Toxicol.* 80:98-112. [Abstract](#)

Stoker TE, Ferrell JM, Laws SC, Cooper RL, Buckalew AR. 2006. Evaluation of ammonium perchlorate in the endocrine disruptor screening and testing program's male pubertal protocol: Ability to detect effects of thyroid endpoints. *Toxicology.* 228:58-65. [Abstract](#)

Gray LE, Wilson VS, Stoker TE, Lambright CS, Furr JR, Noriega NC, Howdeshell K, Ankley GT, Guillette L. 2006. Adverse effects of environmental antiandrogens and androgens on reproductive development in mammals. *Int J Androl.* 29:96-104; 105-8. [Abstract](#)

Stoker TE, Cooper RL, Lambright CS, Wilson VS, Furr JR, Gray LE. 2005. *In vivo* and *in vitro* anti-androgenic effects of DE-71, a commercial polybrominated diphenyl ether (PBDE) mixture. *Toxicol Appl Pharmacol.* 207:78-88. [Abstract](#)

Laws SC, Stoker TE, Goldman JM, Wilson VS, Gray LE, Cooper RL. 2006. The U.S. EPA's Endocrine Disruptor Screening Program: *In vitro* and *in vivo* mammalian Tier I screening assays. In: *Developmental and Reproductive Toxicology, A Practical Approach*. Ed.: R. Hood, CRC Press, Boca Raton, FL.

Stoker TE, Perreault SD, Bremser K, Marshall RS, Murr AS, Cooper RL. 2005. Acute exposure to molinate alters neuroendocrine control of ovulation in the rat. *Toxicol Sci.* 84:38-48. [Abstract](#)

Gray LE, Wilson VS, Noriega NC, Lambright CS, Furr JR, Stoker TE, Laws SC, Goldman JM, Cooper RL, Foster P. 2004. Use of the laboratory rat as a model in endocrine disruptor screening and testing. *42:425-37.* [Abstract](#)

Gray LE, Wilson VS, Stoker TE, Lambright CS, Furr JR, Noriega NC, Hartig PC, Cardon MC, Rosen MB, Ankley GT, Hotchkiss AK, Orlando EF, Guilette LJ, Kelce W. 2004. Environmental androgens and antiandrogens: An expanding chemical universe. In: *Endocrine Disruptors*. Ed.: R.Naz, CRC Press, Boca Raton, FL.

Stoker TE, Laws SC, Crofton KM, Hedge JM, Ferrell JM, Cooper RL. 2004. Assessment of DE-71, a commercial polybrominated diphenyl ether (PBDE) mixture, in the EDSP male and female pubertal protocols. *Toxicol Sci.* 78:144-55. [Abstract](#)

Cooper RL, Laws SC, Narotsky MG, Goldman JM, Stoker TE. 2004. Hormonal control of ovarian function following chlorotriazine exposure: Effect on reproductive function and mammary gland tumor development. In: *Ovarian Toxicology*. Ed.: P. Hoyer, CRC Press, Boca Raton, FL.

Laws SC, Ferrell JM, Stoker TE, Cooper RL. 2003. Pubertal development in female Wistar rats following exposure to propazine and atrazine biotransformation by-products, diamino-s-chlorotriazine and hydroxyatrazine. *Toxicol Sci.* 76:190-200. [Abstract](#)

Stoker TE, Jeffay SC, Zucker RM, Cooper RL, Perreault SD. 2003. Abnormal fertilization is responsible for reduced fecundity following thiram-induced ovulatory delay in the rat. *Biol Reprod.* 68:2142-9. [Abstract](#)

Stoker TE, Guidici DL, Laws SC, Cooper RL. 2002. The effects of atrazine metabolites on puberty and thyroid function in the male Wistar rat. *Toxicol Sci.* 6:198-206. [Abstract](#)

Gray LE, Ostby J, Wilson V, Lambright C, Bobseine K, Hartig P, Hotchkiss A, Wolf C, Furr J, Price M, Parks L, Cooper RL, Stoker TE, Laws SC, Degitz SJ, Jensen KM, Kahl MD, Korte JJ, Makynen EA, Tietge JE, Ankley GT. 2002 Xenoendocrine disrupters-tiered screening and testing: Filling key data gaps. *Toxicology*. 181-182:371-82. [Abstract](#)

Nyska A, Hester SD, Cooper RL, Goldman JM, Stoker TE, House D, Wolf DC. 2002. Single or group housing altered hormonal physiology and affected pituitary and interstitial cell kinetics. *J Toxicol Sci*. 27:449-57. [Abstract](#)